

75 lt
20 gal

ELOS



System MINI

Complete Reef System

USER MANUAL

www.eloseurope.com

PREFACE

Congratulations on your purchase of the **Elos System MINI**.

The uniquely colorful and diverse underwater world of the coral reef and its inhabitants has captivated man for ages. Since the early years, aquatic hobbyists have tried to duplicate this wonderland in their homes, focusing on the equipment and technologies required to achieve this.

Elos developed the **System MINI** to provide a complete reef-ready system so that from the beginning, you can focus on the aquarium's inhabitants rather than the hardware.

This small aquarium have been developed with all the knowledge we have developed in years of experience with our bigger aquarium. It is a full working copy of our big aquarium and, in some respect, even more sophisticated. It incorporate our Skimming technology and an innovative LED light, unsurpassed in term of innovation and quality.

This manual includes complete set-up and operational instructions for the **System MINI** aquarium.

We hope that you enjoy your System MINI.

PLEASE READ AND FOLLOW ALL SAFETY INSTRUCTIONS

DANGER: To avoid possible electric shock, special care should be taken when handling a wet aquarium. For each of the following situations, do not attempt repairs yourself; return the appliance to an authorized service facility for service or discard the appliance.

WARNING: To guard against injury, basic safety precautions should be observed, including the following:

- a. Do not operate any appliance if it has a damaged cord or plug, if it is malfunctioning, or if it is dropped or damaged in any manner.
- b. To avoid the possibility of the appliance plug or receptacle getting wet, position the aquarium stand and tank to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. You should create a “drip loop” (see Figure 1) for each cord connecting an aquarium appliance to a receptacle. The “drip loop” is that part of the cord below the level of the receptacle, or the connector. Use an extension cord, if necessary, to prevent water traveling along the cord and coming into contact with the receptacle. If the plug or receptacle does get wet, DO NOT unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then unplug the device and examine for presence of water in the receptacle.
- c. Close supervision is necessary when any appliance is used by or near children.
- d. To avoid injury, do not contact moving parts.
- e. Always unplug an appliance from an outlet when not in use, before putting on or taking off parts, and before cleaning. Never pull the cord itself to remove the plug from the outlet. Grasp the plug and pull to disconnect.
- f. Do not use an appliance for anything other than its intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.
- g. Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing point.
- h. Make sure an appliance mounted on a tank is securely installed before operating it.
- i. Read and observe all the important notices on the appliance.
- j. If an extension cord is necessary, a cord with a proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it cannot be tripped over or pulled accidentally.

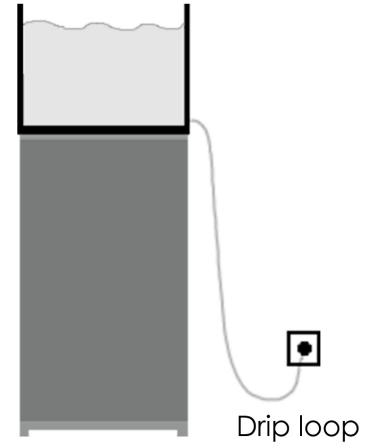


Fig. 1

SET-UP

The ELOS System Mini aquarium comprises the following:

1. Tank with plumbing POOL43S
2. Cabinet SQUARE43
3. External Filter SUMP100
4. Protein skimmer NS100
5. Circulation and skimmer pumps
6. Illumination with power cord and transformer E-LITE
7. Mechanical filter bag
8. Anti-Vibration pad

Location

The first step in setting up the ELOS System Mini is to choose a suitable location. The location should be decided upon in advance because, once filled with substrate, rocks and water, the aquarium must not be moved. Consider the following parameters when choosing the location.

Tank weight and support

The tank weighs about 120kg / 270lbs when filled with water, reef base and live rock. If you choose not to use the System Mini Square Cabinet, consider this weight when selecting an alternative aquarium support or stand. If the support you choose is not designed specifically as an aquarium stand, ensure that it can both withstand the weight and that it remains balanced and level; it should also be constructed from a material that is splash proof. The ELOS System Mini, like all glass aquaria, may crack if subjected to sudden movement as a result of uneven water pressure on the glass walls.

Accessibility

When choosing a location, ensure that you have enough room to open the cabinet's door and remove the skimmer collection cup for regular maintenance. Make sure you can reach the power plug on the wall and that the power plug can be removed. Ensure that the area surrounding the aquarium is waterproof and consider moving away anything that water might damage.

Room temperature

Site selection is important for correct temperature maintenance. We recommended that you keep the ambient room temperature a comfortable and stable 22°C / 72°F. Avoid placing the tank in front of an air conditioner, heating vents or direct sunlight. A well ventilated room with moderate light is the best place to position the aquarium.

NOTE

If you plan to use a water chiller, ensure that there is least 10 cm / 4" of clearance behind the System Mini to allow for sufficient air circulation.

UNPACKING THE AQUARIUM

Please read this section carefully before proceeding. Note that in the box the filter is positioned inside the aquarium. In order to avoid damage to the aquarium, two people are required to unpack it.

To unpack the aquarium

1. open the box from the top and remove the protective packaging from around the top of the aquarium and the filter.
2. Remove skimmer, skimmer cup, pumps, connections and packaging materials from inside the filter/cardboard.
3. With one person positioned at either side of the tank, grasp the filter and lift it gently out of the tank and onto a flat surface. Pay attention not to touch the aquarium with the filter. This may scratch the aquarium's glass.
4. With one person positioned at either side of the tank, grasp the aquarium and lift it gently out of the box and onto a flat surface.
5. Read the Assembly Instructions.

ASSEMBLY

Assembly the cabinet following the supplied instructions.

Aquarium preparation

1. With the help of one person, gently turn the aquarium on one of its side and onto a flat surface so that you can easily access to the connection placed on the bottom of the overflow (see picture)



2. Connect the corrugated tube (overflow plumbing) to the outlet overflow tube on the bottom of the aquarium (see picture)



3. Connect the silicon tube (return plumbing) to the inlet overflow tube on the bottom of the aquarium (see picture)



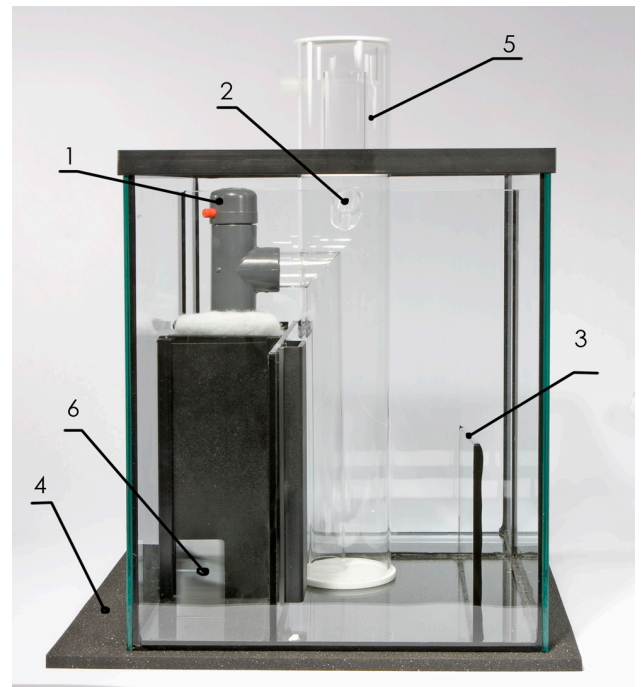
4. With the help of one person gently position the aquarium on the cabinet sliding the above tubing inside the back hole on the top plate of the cabinet.
5. Read the Filter Preparation Instructions.

Filter preparation

1. Position the skimmer NS100 inside the filter as shown in the picture. Assemble the pot (5), the outlet valve and the T plumbing (1). The top of the T plumbing can be rotated to modify the water level inside the skimmer. You'll need to connect the injector to the inlet of the skimmer (2). Note the foam paddle you will position it inside the cabinet, under the filter, to reduce the noise produced by the pumps (4).

The baffle (3) on the back of the filter is used to avoid fine bubbles inside the aquarium. Here you will position the outlet tube (corrugated) coming from the overflow.

Also note the hole on the bottom of the plastic separator (6). It force part of the water coming out from the skimmer, to the bottom of the filter material to create the correct water flow thus avoiding anaerobic areas.

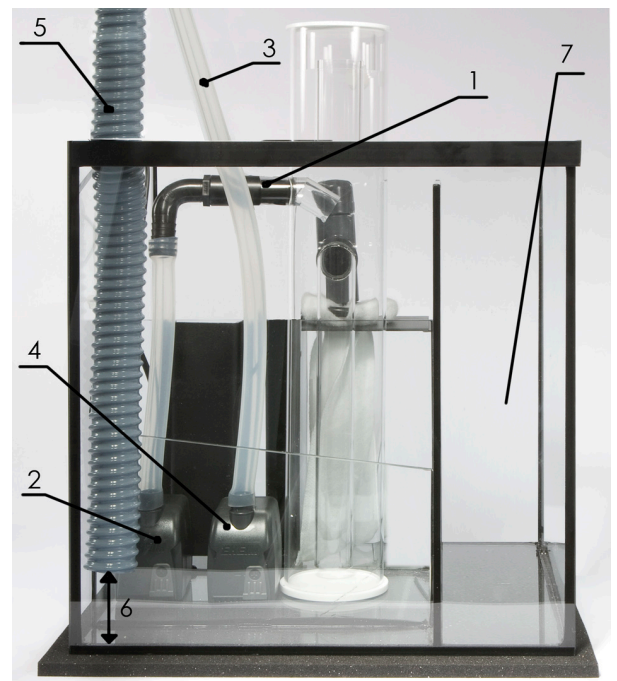


2. Connect the injector (1) to the skimmer pump (2). You will modify the water flow on the pump, and the air intake if necessary.

NOTE: pumps transmit vibrations and noise to the SUMP. To reduce the noise use the supplied suction cups to fix the pumps. Position the pumps away from the side glass of the filter will also help reducing noise generated from vibrations.

3. With the help of a person, gently move the filter into the cabinet, while positioning the return tube (silicon tube) coming from the overflow of the aquarium (3) previously connected to the return pump (4). You will modify the water flow on the pump to your needs.

Also position the corrugated tube coming from the overflow plumbing of the aquarium (5) as shown on the picture. Provide enough space on the bottom of the tube (6) for the water flow.



4. Don't forget to place inside the cabinet, below the filter, the black polyurethane mat. It is important to insulate the filter from the cabinet thus reducing the propagation of the pumps noise.

Light preparation

Light is the primary energy source in a coral reef ecosystem. Some of the reef organisms convert the light into chemical energy that other reef inhabitants consume in turn. Invertebrates, such as corals and anemones, rely on sufficient light to promote photosynthesis. The spectrum of light is of paramount importance because those wavelengths (colours) of light found at the natural depths of reefs maximize the ability of the zooxanthellae to pho-

tosynthesis. The intensity of the light is also important, though it is impractical for a home aquarium to provide the high light intensity present in natural reefs. The Elos System MINI features an unique and innovative LED lighting system, designed specifically to attain the lighting requirements for a healthy reef ecosystem. The lighting provides a strong, cold, blue sky colour (10,000K) light with a 1:3 ratio to actinic blue to duplicate the magnificent fluorescent colours of the reef invertebrates.

Installing the light onto your System MINI is very simple and requires few simple steps:

1. Place the light body upside down on a smooth, level surface to prevent scratches.
2. Fix the acrylic, transparent plate to the steel bracket. The screws will be straighten up later on, when the bracket will be fixed to the aquarium glass.
3. Line up the steel bracket with the cutout in the light body (closed to the power cord) and insert it by pushing it into its position. A small amount of force may be required to push the steel bracket into the body. Straighten the two hexagon screws (see picture).
4. Make sure that the light body fits securely to the bracket.
6. You are now ready to place the light on the aquarium and tight up the screws that fix the acrylic transparent plate to the steel bracket (see picture).
7. It may be necessary to adjust the position of the light supports to position it perfectly parallel to the water surface.

NOTE After initial assembly, it is advisable to regularly clean the light protection glass as well as the light and bracket with clean, fresh water and a soft cloth.

8. Read the Pre-operative Instructions before introducing salty water, live rocks and live animals.



PRE-OPERATIVE INSTRUCTIONS

Before installing a new aquarium it is advisable to inspect it for leaks to make sure that no damage has occurred during transport.

To check for leaks

1. Fill the tank to the overflow hole with fresh water, avoid the water to fill up the sump for about 10 cm above the pumps. Wait for 15 minutes and inspect for any signs of leakage.
2. Start the pumps and control again after 15 minutes for any sign of leakage.
3. Siphon the water from the tank to empty it.

NOTE: Do not try to move the aquarium with any water inside

Congratulations! You have completed the assembly of your System MINI. You are now ready to set up your reef tank.

